

## Homework Assignment

Due Date: 10/12 at 11:59pm

As a follow up to our class discussion, the objective of this assignment is to learn how to build for CVS stores. You will learn how to manage a drug catalog as well as understand how to manage **drug inventory** (the actual shelved medication) for the **CVS stores**. It is very important to understand why you must model the inventory items separate from the drug (product).

The key use cases are:

The CVS admin role:

- 1) Manage the drug catalog: this defines the drugs and the manufacturer (Pharma) of the drugs. Please include at least 10 attributes. This must include suggested list price for the drug.
- 2) Create CVS stores in different local areas
- 3) Browse inventory of different stores. For any drug in the drug catalog must be able to see the quantity available in any store

The Store admin role

The store manages their inventory of the drugs. The received drugs (to inventoried for use later) must find a match in the CVS drug catalog.

- 1) Manage drug inventory

Add drug item and input the drug serial number, expiration date, add additional quantity received, and if the received drug items then create new drug item, etc.

- 2) Generate an inventory report showing items not in store or in short supply. Define a variable called threshold that shows the minimum you must have before you have to order more drugs.

As a third requirement,

Define an initialization file where you create an initial set of data elements such as suppliers, drugs, and medications. Your first step will be to display the available data on the screens and allow the user to add more items.

For example

- 1) Create an instance of the pharm directory (supplier directory class)
- 2) Create a number of pharma objects (supplier)
- 3) For each pharma company